

Abstract

Curled Surface Imaging System

5 The present invention relates to a system for de-warping
images of a developable surface, including developable
curled surfaces, and in particular of images of curled
documents (30). The system (1) includes a processor (25)
linked to an image capture means (2) which: captures an
10 image of the surface (30), said image having a warp
corresponding to the non-planar surface; generates from the
image a first set of points representing the three-
dimensional profile of the non-planar surface relative (30)
to a planar reference surface (12); fits to the first set
15 of points a second set of points representative of a
developable mesh; and uses the second set of points to
texture-map the image (12) in order to de-warp the image.

Figure 1